

a marked up version has not been changed relative to the immediate prior version, except that marked up versions are not being supplied for any added claim or canceled claim.

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56. (Amended) Plastic-based composite product comprising a plastic mass in which particles are homogeneously embedded, which particles have tensile strength in a first particle direction, said product having a chosen principal product direction,

wherein the particles comprise:

small particles being fibres and having a random orientation and a length of 0.2-2 mm; and

large particles dominantly orientated such that their first particle direction is in said chosen principal product direction, said large particles having a length in the first particle direction of about 2-6 mm, wherein the product is elongated and the chosen principal product direction is the longitudinal direction of the product.

57. Product as claimed in claim 56, wherein the particles are elongated.

58. Product as claimed in claim 57, wherein the particles are made of wood material.

59. Product as claimed in claim 58, wherein the wood particles consist of a material selected from the group consisting of fir, spruce, birch and poplar.

60. Product as claimed in claim 57, wherein the large particles are fibres, and wherein the first particle direction is the longitudinal direction of each fibre.

61. Product as claimed in claim 56, wherein the plastic mass is a thermoplastic polymer.

62 Product as claimed in claim 61, wherein the particles include particles of wood material, wherein said wood material particles are elongated and have a length in the first particle direction and have a transverse dimension perpendicular to said first particle direction, the ratio between the length in the first particle direction and said transverse dimension being 4 or more, wherein the wood particles are present in the plastic mass in a quantity of 40-80% by mass, and wherein the product complies with the following requirements relating to mechanical properties in

- bending strength in the first particle direction: at least 8 MPa
- bending modulus in the first particle direction: at least 3 GPa
- tensile strength in the first particle direction: at least 6 MPa
- tensile stress modulus in first particle direction: at least 3 GPa
- tensile strength transversely of first particle direction: at least 0.3 MPa
- tensile stress modulus transversely of first particle direction: at least 1 GPa.

63. Product as claimed in claim 62, wherein the ratio lies in the range of 6-80.

64. Product as claimed in claim 62, wherein the wood particles are present in the plastic mass in a quantity of 50-70% by mass.

65. Product as claimed in claim 61, wherein the polymer is a polyolefine.

66. Product as claimed in claim 65,

wherein the polyolefine material is a material selected from the group consisting of polypropylene and polyethylene.

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67. (Amended) Product as claimed in claim 62, wherein the particles include particles of non-wood material present in the plastic mass in a quantity of 3-25% by mass, said particles of non-wood material including fibres of natural cellulose polymer.

68. Product as claimed in claim 67, wherein the fibres of natural cellulose polymer are made from a material selected from the group consisting of flax, jute, hemp, sisal, coconut, bamboo and miscanthus.

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69. (Amended) Product as claimed in claim 62, wherein the particles include particles of non-wood material present in the plastic mass in a quantity of 3-25% by mass, said particles of non-wood material including glass fibres with a length of 4-5 mm and a diameter of 0.013 mm and a ratio of length to diameter in the range of 300-400.

70. Product as claimed in claim 56, wherein the large particles are plate-shaped having a main plane, the first particle direction extending in said main plane.

Cancel claims 71-72.

73. Product as claimed in claim 56, comprising at least one colouring agent or pigment.

74. Product according to claim 56, wherein the product forms a plate-shaped layer, a skin layer being adhered to at least one of the sides of the plate-shaped layer.

75. Laminated product comprising a plurality of products according to claim 56, wherein the products are plate shaped and have main planes, and wherein the plate-shaped products are adhered to one another on their main planes.

Please add new claims 76-81 as follows:

-- 76. (New) Plastic-based composite product comprising a plastic mass in which particles are homogeneously embedded, which particles have tensile

strength in a first particle direction, said product having a chosen principal product direction,

wherein the particles comprise:

small particles being fibres and having a random orientation and a length of 0.2-2 mm; and

large particles dominantly orientated such that their first particle direction is in said chosen principal product direction, said large particles having a length in the first particle direction of about 2-6 mm, wherein the plastic mass is a thermoplastic polymer.

77. (New) Product as claimed in claim 76, wherein the particles include particles of wood material, wherein said wood material particles are elongated and have a length in the first particle direction and have a transverse dimension perpendicular to said first particle direction, the ratio between the length in the first particle direction and said transverse dimension being 4 or more, wherein the wood particles are present in the plastic mass in a quantity of 40-80% by mass, and wherein the product complies with the following requirements relating to mechanical properties in

- bending strength in the first particle direction: at least 8 MPa
- bending modulus in the first particle direction: at least 3 GPa
- tensile strength in the first particle direction: at least 6 MPa
- tensile stress modulus in first particle direction: at least 3 GPa

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- tensile strength transversely of first particle direction: at least 0.3 MPa
 - tensile stress modulus transversely of first particle direction: at least 1 GPa.

78. (New) Product as claimed in claim 77, wherein the ratio lies in the range of 6-80.

79. (New) Product as claimed in claim 77, wherein the wood particles are present in the plastic mass in a quantity of 50-70% by mass.

80. (New) Product as claimed in claim 76, wherein the polymer is a polyolefine.

81. (New) Product as claimed in claim 80,
wherein the polyolefine material is a material selected from the group consisting of polypropylene and polyethylene.--